# Beo Deul Ryu

List of Publications by Year
in descending order



| 33 | 575 | 687363 13 | 610901 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 33 | 33 | 33 | 1074 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Growth Behavior, nucleation control and excellent optical properties of atomically thin WS2 thin films processed via Gas-phase chemical vapor deposition. Applied Surface Science, 2021, 568, 150908. | 6.1 | 4 |
| 2 | Observation of dopant-dependent efficiency in chemically doped graphene/silicon solar cells and prospects for MoOx to overcome the stability and efficiency limits. Journal of Applied Physics, 2021, 129, . | 2.5 | 5 |
| 3 | Gallium dopant-induced tunable electrical properties of reduced graphene oxide using metal organic chemical vapor deposition. Applied Surface Science, 2020, 504, 144500. | 6.1 | 6 |
| 4 | Barrier-assisted vapor phase CVD of large-area MoS<sub>2</sub> monolayers with high spatial homogeneity. Nanoscale Advances, 2020, 2, 4106-4116. | 4.6 | 13 |
| 5 | Large-Scale Atomically Thin Monolayer 2H-MoS<sub>2</sub> Field-Effect Transistors. ACS Applied Nano Materials, 2020, 3, 7371-7376. | 5.0 | 14 |
| 6 | Reduced thermal resistance of heat sink using graphene oxide decorated with copper nanoparticles. Materials Research Bulletin, 2019, 110, 76-81. | 5.2 | 7 |
| 7 | Rapid wafer-scale fabrication with layer-by-layer thickness control of atomically thin MoS2 films using gas-phase chemical vapor deposition. APL Materials, 2019, 7, . | 5.1 | 31 |
| 8 | Multidimensional graphene and ZnO-based heterostructure for flexible transparent ultraviolet photodetector. Applied Surface Science, 2019, 481, 524-530. | 6.1 | 32 |
| 9 | Characteristics of aluminum nitride films on hexagonal boron nitride buffer layers using various growth methods through metal organic chemical vapor deposition. Journal of Crystal Growth, 2019, 507, 316-320. | 1.5 | 6 |
| 10 | Enhanced thermal stability of reduced graphene oxide-Silicon Schottky heterojunction solar cells via nitrogen doping. Materials Science in Semiconductor Processing, 2017, 59, 45-49. | 4.0 | 15 |
| 11 | Nanostructural Effect of ZnO on Light Extraction Efficiency of Near-Ultraviolet Light-Emitting Diodes. Journal of Nanomaterials, 2016, 2016, 1-6. | 2.7 | 11 |
| 12 | Effect of curved graphene oxide in a GaN light-emitting-diode for improving heat dissipation with a patterned sapphire substrate. Semiconductor Science and Technology, 2016, 31, 085010. | 2.0 | 11 |
| 13 | Long-term stability of Si-organic hybrid solar cells with a thermally tunable graphene oxide platform. RSC Advances, 2016, 6, 72342-72350. | 3.6 | 5 |
| 14 | Current transport mechanism in graphene/AlGaN/GaN heterostructures with various Al mole fractions. AIP Advances, 2016, 6, . | 1.3 | 17 |
| 15 | Effect of characteristic properties of graphene oxide on reduced graphene oxide/Si schottky diodes performance. Materials Science in Semiconductor Processing, 2016, 44, 1-7. | 4.0 | 11 |
| 16 | Significant reduction of AlN wafer bowing grown on sapphire substrate with patterned graphene oxide. Materials Letters, 2015, 160, 496-499. | 2.6 | 0 |
| 17 | Reduced junction temperature and enhanced performance of high power light-emitting diodes using reduced graphene oxide pattern. Journal Physics D: Applied Physics, 2015, 48, 265102. | 2.8 | 9 |
| 18 | Insights into annealing-induced ohmic contact formation at graphene/p-GaN interface with a NiO<sub>x</sub>contact layer. Journal Physics D: Applied Physics, 2015, 48, 095102. | 2.8 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Solution-processed multidimensional ZnO/CuO heterojunction as ultraviolet sensing. Optical Materials Express, 2015, 5, 1752. | 3.0 | 20 |
| 20 | Size dependence of silica nanospheres embedded in 385 nm ultraviolet light-emitting diodes on a far-field emission pattern. Optics Express, 2014, 22, A1553. | 3.4 | 0 |
| 21 | Performance evaluation of GaN light-emitting diodes using transferred graphene as current spreading layer. Journal of Applied Physics, 2014, 115, 054503. | 2.5 | 22 |
| 22 | Fabrication and Characteristics of GaN-Based Light-Emitting Diodes with a Reduced Graphene Oxide Current-Spreading Layer. ACS Applied Materials & Interfaces, 2014, 6, 22451-22456. | 8.0 | 15 |
| 23 | Stimulated N-doping of reduced graphene oxide on GaN under excimer laser reduction process. Materials Letters, 2014, 116, 412-415. | 2.6 | 13 |
| 24 | Impact of Interlayer Processing Conditions on the Performance of GaN Light-Emitting Diode with Specific NiO<sub>x</sub>/Graphene Electrode. ACS Applied Materials & Interfaces, 2013, 5, 958-964. | 8.0 | 37 |
| 25 | Air-gap embedding GaN template for enhanced emission from light-emitting diodes. Current Applied Physics, 2013, 13, 1981-1987. | 2.4 | 1 |
| 26 | Improved heat dissipation in gallium nitride light-emitting diodes with embedded graphene oxide pattern. Nature Communications, 2013, 4, 1452. | 12.8 | 177 |
| 27 | Two-step lateral growth of GaN for improved emission from blue light-emitting diodes. Journal of Crystal Growth, 2013, 372, 157-162. | 1.5 | 1 |
| 28 | High performance of InGaN light-emitting diodes by air-gap/GaN distributed Bragg reflectors. Optics Express, 2012, 20, 9999. | 3.4 | 12 |
| 29 | Chemically modified multilayer graphene with metal interlayer as an efficient current spreading electrode for InGaN/GaN blue light-emitting diodes. Journal Physics D: Applied Physics, 2012, 45, 145101. | 2.8 | 35 |
| 30 | Beam Divergence and Thermal Transient Characteristics of InGaN/GaN Light Emitting Diodes with Rear Side Grown ZnO Nanorods. Japanese Journal of Applied Physics, 2012, 51, 102101. | 1.5 | 0 |
| 31 | Enhanced light output power of GaN-based light-emitting diodes by nano-rough indium tin oxide film using ZnO nanoparticles. Journal of Applied Physics, 2011, 109, 093116. | 2.5 | 9 |
| 32 | Nanoscale ITO/ZnO layer-texturing for high-efficiency InGaN/GaN light emitting diodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 166, 230-234. | 3.5 | 21 |
| 33 | Impact of layer thickness and light transmission of ZnO nanomaterials on GaN-based light emitting diodes. Vacuum, 2010, 85, 198-202. | 3.5 | 8 |